

CEUS Earthquake Hazards Research Review and Planning Workshop
Session Organization Guidance

Meeting Location: FedEx Center Rm 203/205, Innovation Drive, University of Memphis
Thanks to the support of the West Tennessee Seismic Safety Commission, there will be breakfast and lunch available to attendees on February 25-26.

Tuesday February 25

8:00 - 8:10 AM	Welcome and Workshop Overview (Rob Williams <i>USGS</i> , C. A. Langston <i>CERI</i>)
8:10 - 8:30 AM	National Hazards Maps (Chuck Mueller <i>USGS</i>)
8:30 AM - 12:00PM	Induced Seismicity (J. Rubinstein <i>USGS</i> , S. Horton <i>CERI</i>)
8:30 - 9:00 AM	Overview of Induced Earthquakes in Central and Eastern North America (Steve Horton <i>CERI</i>)
9:00 - 9:30 AM	Overview of the Regulatory Response to the 2010-2011 Guy-Greenbrier Earthquake Swarm in North-Central Arkansas (Scott Ausbrooks <i>Arkansas Geological Survey</i>)
9:30 - 10:00 AM	Industry Perspective on Induced Seismicity from Fluid Injection (Shawn Maxwell <i>Schlumberger</i>)
10:00 - 10:30 AM	Break and Poster Viewing
10:30 - 10:45 AM	Quantifying the Seismic Hazard from Natural and Induced Earthquakes (Justin Rubinstein <i>USGS</i>)
10:45 - 11:00 AM	Effects of Induced Seismicity on Seismic Hazards (Chuck Mueller <i>USGS</i>)
11:00 - 11:15 AM	Evaluation of Seismic Hazards from Induced Seismicity (Gail Atkinson <i>UWO</i>)
11:15 - 11:30 AM	Hydrogeologic modeling of high volume injection in the Jones Area, Oklahoma (Matthew Weingarten, <i>UC Boulder</i>)
11:30 - 12:00 noon	Discussion
12:00 - 1:30 PM	Meeting Lunch (Speaker: Mike Blanpied <i>USGS</i> on Washington D.C. outlook for science)
1:30 - 5:00 PM	Ground Motions (Gail Atkinson <i>UWO</i> , C. A. Langston <i>CERI</i>)
1:30 - 2:00 PM	Engineering Ground Motions (G. Atkinson <i>UWO</i>)
2:00 - 2:30 PM	Lg Wave Propagation and Ground Motions (Chuck Langston <i>CERI</i>)
2:30 - 3:00 PM	3D Velocity Models and Wave Simulations (Leo Ramirez-Guzman <i>UNAM</i>)

3:00 - 3:30 PM	Break and Poster Viewing
3:30 - 3:40 PM	NGA-East Overview (Christine Goulet <i>PEER UC Berkeley</i>)
3:40 - 3:50 PM	GMPEs and NGA-East (Chris Cramer, N. Al-Noman, P. Ogweno, <i>CERI</i>)
3:50 - 4:00 PM	Hybrid Empirical Model (Ken Campbell <i>EQECAT</i>)
4:00 - 4:10 PM	CEUS Ground Motion Models Used in the 2014 NSHMs (Sanaz Rezaeian <i>USGS</i>)
4:10 - 4:20 PM	Lg wave attenuation in the CEUS (Martin Chapman <i>VPI</i> , Sharam Pezeshk <i>UM</i>)
4:20 - 4:30 PM	Earthquake Simulations as a tool to gain insight from velocity models (Ricardo Taborda <i>CERI</i>)
4:30 - 5:00 PM	Discussion

Wednesday February 26

8:00 - 8:30 Poster 2-minute advertisements by presenters

CEUS Earthquake System (S. Hough *USGS*, C. A. Powell *CERI*)

8:30 - 9:00 AM	CEUS Earthquakes overview (C. A. Powell <i>CERI</i>)
9:00 - 9:30 AM	Tectonic framework overview (William Thomas <i>UK</i>)
9:30 - 9:40 AM	Earthquakes and faults of the Canadian shield (Maurice Lamontagne <i>GSC</i>)
9:40 - 9:50 AM	Origin of Earthquakes in the EUS (Robert Hatcher <i>UT</i>)
9:50 - 10:00 AM	Complex faulting and swarm activity along the New Madrid Seismic Zone (Heather DeShon <i>SMU</i>)
10:00 - 10:30 AM	Break and poster viewing
10:30 - 10:40 AM	State of stress and possible sources of loading for earthquakes in the CEUS (William Holt <i>SUNY Stony Brook</i>)
10:40 - 10:50 AM	Recent GPS results (Robert Smalley <i>CERI</i>)
10:50 - 11:00 AM	What's so special about New Madrid? (Susan Hough <i>USGS</i>)
11:00 - 11:10 AM	Debunking the long-lived aftershock hypothesis (Morgan Page <i>USGS</i>)
11:10 - 11:20 AM	Variation of b-value in the NMSZ (A. Mostafanejad <i>CERI</i>)
11:20 - 11:30 AM	The search for seismically active structures in the northeastern U.S.: latest results (John Ebel <i>Boston College</i>)
11:30 - 12:00 noon	Discussion

12:00 - 1:30 PM **Meeting Lunch** (Speaker: Julie Furr, Chad Stewart & Associates, on local building code issues and history)

Quaternary Geology (R. VanArsdale *UM*, B. Magnani *SMU*)

1:30 - 2:00 PM	Quaternary structural and geomorphic evolution of the New Madrid seismic zone region (Roy Van Arsdale <i>UM</i>)
2:00 - 2:30 PM	Quaternary tectonics of the Mississippi River valley from the exploration seismology perspective (Tom Pratt <i>USGS</i>)
2:30 - 2:40 PM	Quaternary fault and source criteria for NSHM (Oliver Boyd <i>USGS</i>)
2:40 - 2:50 PM	LIDAR in the Mississippi River valley (Ryan Gold <i>USGS</i>)
2:50 - 3:00 PM	Quaternary geology in the Mississippi River valley (Margaret Guccione <i>UA</i>)
3:00 - 3:30 PM	Break and poster viewing
3:30 - 3:40 PM	Paleoseismology of the Wabash Valley seismic zone region (Ron Counts <i>KGS</i>)
3:40 - 3:50 PM	Paleoseismology and seismic source zones south of the NMSZ and the East TN seismic zone (Randy Cox <i>UM</i>)
3:50 - 4:00 PM	Paleoliquefaction and geophysical tools in the study of paleoliquefaction (Haydar Al-Shukri <i>UALR</i>)
4:00 - 4:10 PM	Mississippi River reflection profiles and follow-up (Beatrice Magnani <i>SMU</i>)
4:10 - 4:20 PM	Geoscience response and lessons from the 2011 Virginia earthquake (Wright Horton <i>USGS</i>)
4:20 - 4:30 PM	Quantitative geomorphology research in the eastern United States (Sean Gallen <i>UMich</i>)
4:30 - 5:00 PM	Discussion
5:00 - 5:15 PM	Workshop Wrap-up (R. Williams <i>USGS</i>, C. Langston <i>CERI</i>)